

Work Order ID 164977

Friday, August 11, 2017 11:07:48 AM

164977

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Item ID: D3801-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Hand Retractable Spring Plunger
 Start Date: 8/14/2017 Start Qty: 6.00 ***6*** Cust Item ID:
 Required Date: 8/21/2017 Req'd Qty: 6.00 ***6*** Customer:

Reference:

Approvals: Process Plan: JOB **DAS 13 9-89** Date: 2017/08/11 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3801	B

100 PURCHASING 0.00

100

Purchasing Memo 0.00

Purchasing Issue P/O: 37402
 Purchase Part Number: KBP-504
 Supplier: Essentra
 Certificate of conformity is required

6 **DAS 13 9-89** JOB
2017/08/14

110 Receive & Inspect for Damage & Mat'l Certs 0.00

110

Packaging Memo 0.12

Packaging Ensure material certification is attached

6 **DAS 6 9-89** AUG 18 2017

120 QC6- All purchased or subcontracted products 0.00

120

QC Memo 0.00

Quality Control Ensure Material certification comply to Dwg D3801

6 **DAS 38 9-89** AUG 21 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Required Date: 8/21/2017 Req'd Qty: 6.00 ***6*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: 51082	0.00				6			
130									
Packaging	Memo	0.06							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.60							
Quality Control									

17/9/5
17/8/23
UM

DAS 21 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation		Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER :			

Picklist Print

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Work Order ID: 164977

164977

Parent Item: D3801-1

D3801-1

Parent Item Name: Hand Retractable Spring Plunger

Start Date: 8/14/2017

Required Date: 8/21/2017

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev:A 08-07-22 new issue DD verified by:EC
12.03.06 AS PER DWG REV.B DD VERF:EC

IPP REV:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
KBP-504		Purchased	No			110	Each	0.0000	1	6			

KRP-504

Hand Retractable Spring Plunger

**

DAS

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2-89

AUG 18 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

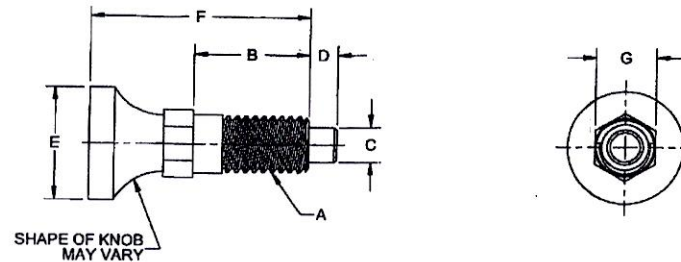
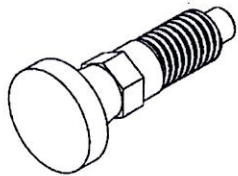
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :			
Misidentified	☐	Past Due	☐				

SPECIFICATION CONTROL DRAWING



D3801-X HAND RETRACTABLE SPRING PLUNGER

DART P/N	SUPPLIER	SUPPLIER P/N	'A' THREAD SIZE	'B' THREAD LENGTH	'C' NOSE DIAMETER	'D' NOSE LENGTH	'E' HEAD DIAMETER	'F' LENGTH	'G' WIDTH ACROSS FLATS	MATERIAL (BODY/NOSE)	MATERIAL (KNOB)	TYPE	END FORCE (lbs)	WEIGHT (lbs)
D3801-1	REID SUPPLY COMPANY	KBP-504	3/8-24 UNF	0.67	0.197	0.20	0.83	1.71	0.50	303 SS	BLACK DELRIN	NON-LOCKING	2.7	0.01
D3801-3	REID SUPPLY COMPANY	PRT-22 OR PRT-22N	1/2-13 UNC	1.00	0.313	0.25	1.00	1.80	0.52	303 SS	WHITE DELRIN	NON-LOCKING	1.75	0.02

△B

△B

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A

RELEASED
2012-03-02

B	SUPPLIER P/N CHANGED: BODY/NOSE MAT'L WAS STEEL NOW STAINLESS STEEL.		MB	12.02.24
A	NEW ISSUE		MB	08.06.19
REV.	DESCRIPTION		BY	DATE
DESIGN	DART AEROSPACE LTD		REV. B	
DRAWN	HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1	
CHECKED	DRAWING NO. D3801		SCALE	
MFG. APPR.	TITLE		HAND RETRACTABLE SPRING PLUNGER NTS	
APPROVED	DATE 12.02.24		COPYRIGHT © 2008 BY DART AEROSPACE LTD	
DE APPR.	THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

w/o 164977 QAB 2017/08/11
DAS
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9-89



2538 Speers Road, Unit 7
Oakville, ON L6L 5K9
Phone: 905-825-0134
Fax: 905-825-2919
www.essentracomponents.com

Packing List
LOAD NUMBER 768117
SID/INV 1729929
CUSTOMER PO PO37402
ORDER NUMBER 2446114
CARRIER Fed Ex Ground
SHIP DATE 08/17/17
FOB DESCRIPTION COL

SOLD TO 422854
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

DELIVERY TO 422854
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

LINE NO	PART NO. DESCRIPTION	ORIGINAL QUANTITY	QUANTITY SHIPPED	CTNS	NET WEIGHT	TOTAL WEIGHT
1	KBP-504 3/8-24 NON-LOCKING SS PULL INDEXING PLUNGER Cust Order #: PO37402 Country Of Origin: DE	6.000	6.000	6	.28	1.28
2	KCL-208 CAM LEVER 2.77 SS ADJ CAM LEVER 1/4-20 X 1.18 STUD Cust Order #: PO37402 Country Of Origin: DE	10.000	10.000	10	1.60	2.60
3	CBL-460 LOOP SLEEVE Z.P.COPPER LOOP SLEEVE FOR 1/16" CABLE Cust Order #: PO37402 Country Of Origin: US	100.000	100.000	100	.30	1.30

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Certificate of Compliance

This is to certify that the above material shipped against your purchase order is in conformance with all known requirements, specifications and drawings in effect at the time of manufacture. All applicable physical, functional, dimensional and material test reports are on file at our facility, and may be inspected by your representative upon request.

Richard Queer
Quality Assurance Manager



Essentra Components
2538 Speers Road, Unit 7
Oakville, ON L6L 5K9
Phone: 905-825-0134
Fax: 905-825-2919
www.essentracomponents.com

Order Acknowledgement

ORDER NUMBER	2446114
CUSTOMER PO	PO37402
CARRIER	Fed Ex Ground
CURRENCY	CAD
ORDER DATE	08/14/17
FREIGHT TERMS	COL

SOLD TO 422854
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

DELIVERY TO 422854
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

LINE NO	PART#/CUSTOMER PART DESCRIPTION	QUANTITY ORDERED	UNIT PRICE (CAD)	UOM	EXT. PRICE (CAD)	CUSTOMER REQUEST DATE	ESTIMATED SHIP DATE
1	KBP-504 3/8-24 NON-LOCKING SS PULL INDEXING PLUNGER SHIP FROM: OAKVILLE, ON	6.000	24.4600	EA	146.76	08/18/17	08/18/17
2	KCL-208 CAM LEVER 2.77 SS ADJ CAM LEVER 1/4-20 X 1.18 STUD SHIP FROM: OAKVILLE, ON	10.000	29.3200	EA	293.20	08/18/17	08/18/17
3	CBL-460 LOOP SLEEVE Z.P.COPPER LOOP SLEEVE FOR 1/16" CABLE SHIP FROM: OAKVILLE, ON IU151793240 FEDEX	100.000	.3500	EA	35.00	08/18/17	08/18/17

AUG 18 2017

SUBTOTAL:	474.95
TAX:	61.75
TOTAL:	536.70



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37402**

Purchase Order Date 8/14/2017 8:53:30 AM

PO Print Date 8/14/2017

Page Number 1 of 2

Order From :

VC-ESS001

ESSENTIA COMPONENTS
P.O. BOX 9900 T-9915
POSTAL STATION A
TORONTO, ONTARIO M5M 2J2
CANADA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

2017/08/14

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Buyer

Diane Baker

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	KBP-504 AS PER DWG D3801 REV. B B164977	Hand Retractable Spring Plunger	8/18/2017 Yes 8/18/2017		6.00 Each	\$24.46	\$146.76
Line Total:							\$146.76
2	KCL-208 AS PER DWG D2372 REV. B B165007	Cam Lever	8/18/2017 Yes 8/18/2017		10.00 Each	\$29.32	\$293.20
Line Total:							\$293.20
4	CBL-460	Loop Sleeve	8/18/2017 Yes 8/18/2017		100.00 Each	\$0.35	\$35.00

AUG 18 2017

Note:

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8/14/2017